

FEDERAL R&D BUDGET AUTHORITY  
BY BUDGET FUNCTION



Table 1. Federal R&D and R&D plant budget authority, by budget function: fiscal years 2000-2002

2002 rank	Budget function	2000 actual	2001 preliminary	2002 proposed	Percent change	
					2000-2001	2001-2002
		[In millions of dollars]				
	Total.....	83,581	91,335	99,093	9.3	8.5
1	National defense.....	43,161	46,243	51,996	7.1	12.4
2	Health.....	18,121	20,814	23,459	14.9	12.7
3	Space research and technology.....	8,437	8,986	9,076	6.5	1.0
4	General science and basic research	5,593	6,234	6,156	11.4	-1.2
5	Natural resources and environment.	2,082	2,272	2,230	9.1	-1.9
6	Transportation.....	1,664	1,686	1,688	1.3	0.1
7	Agriculture.....	1,561	1,713	1,551	9.8	-9.4
8	Energy.....	1,000	1,349	1,076	35.0	-20.2
9	Veterans benefits and services.....	645	703	722	9.0	2.7
10	Education, training, employment, and social services.....	429	450	427	4.9	-5.1
11	Commerce and housing credit.....	530	475	337	-10.4	-29.1
12	International affairs.....	200	216	206	8.0	-4.6
13	Administration of justice.....	73	90	74	23.3	-17.8
14	Community and regional developme	46	55	44	19.6	-20.0
15	Income security.....	25	42	42	68.0	0.0
16	General government.....	14	7	8	-50.0	14.3

**NOTES:** Because of rounding, components may not add to the totals. Percent change is derived from unrounded data. This is a new table in which data include combined funds for both R&D and R&D plant.

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from the agencies' budget offices.

Table 2. Federal R&D budget authority, by budget function: fiscal years 2000-2002

2002 rank	Budget function	2000 actual	2001 preliminary	2002 proposed	Percent change	
		[In millions of dollars]			2000-2001	2001-2002
	Total.....	78,664	86,270	94,000	9.7	9.0
1	National defense.....	42,580	45,595	51,362	7.1	12.6
2	Health.....	17,869	20,569	23,037	15.1	12.0
3	Space research and technology.....	5,363	6,016	6,143	12.2	2.1
4	General science and basic research.....	4,977	5,393	5,339	8.4	-1.0
5	Natural resources and environment.....	1,999	2,174	2,143	8.8	-1.4
6	Transportation.....	1,636	1,655	1,670	1.2	0.9
7	Agriculture.....	1,426	1,552	1,434	8.8	-7.6
8	Energy.....	996	1,342	1,068	34.8	-20.4
9	Veterans benefits and services.....	645	703	722	9.0	2.7
10	Education, training, employment, and social services.....	418	437	411	4.5	-5.9
11	Commerce and housing credit.....	406	423	299	4.2	-29.4
12	International affairs.....	200	216	206	8.0	-4.6
13	Administration of justice.....	73	90	74	23.3	-17.8
14	Community and regional development.....	46	55	44	19.6	-20.0
15	Income security.....	25	42	42	68.0	0.0
16	General government.....	6	7	7	16.7	0.0

**NOTES:** Because of rounding, components may not add to totals. Percent change is derived from unrounded data.

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from agencies' budget offices.

Table 3. **Distribution of total Federal R&D budget authority, by function:**  
**fiscal years 2000-2002**

[In percentages]

2002 rank	Budget function	2000 actual	2001 preliminary	2002 proposed
	Total.....	100.0	100.0	100.0
1	National defense.....	54.1	52.9	54.6
2	Health.....	22.7	23.8	24.5
3	Space research and technology.....	6.8	7.0	6.5
4	General science and basic research.....	6.3	6.3	5.7
5	Natural resources and environment.....	2.5	2.5	2.3
6	Transportation.....	2.1	1.9	1.8
7	Agriculture.....	1.8	1.8	1.5
8	Energy.....	1.3	1.6	1.1
9	Veterans benefits and services.....	0.8	0.8	0.8
10	Education, training, employment, and social services.....	0.5	0.5	0.4
11	Commerce and housing credit.....	0.5	0.5	0.3
12	International affairs.....	0.3	0.3	0.2
13	Administration of justice.....	0.1	0.1	0.1
14	Community and regional development.....	0.1	0.1	*
15	Income security.....	*	*	*
16	General government.....	*	*	*

\* = Less than one-tenth of one percent.

**NOTE:** Because of rounding, components may not add to totals.

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from agencies' budget offices.

Table 4. Federally funded R&D for national defense and civilian functions: fiscal years 1955-2002

Fiscal year	Current dollars			Constant 1996 dollars <sup>1</sup>			Percent of total	
	Total	National defense	Civilian functions	Total	National defense	Civilian functions	National defense	Civilian functions
	[In millions of dollars]							
1955.....	2,533	2,151	382	12,910	10,963	1,947	84.9	15.1
1956.....	2,988	2,535	453	14,836	12,587	2,249	84.8	15.2
1957.....	3,932	3,327	605	18,822	15,926	2,896	84.6	15.4
1958.....	4,570	3,801	769	21,236	17,663	3,573	83.2	16.8
1959.....	6,694	5,556	1,138	30,608	25,405	5,203	83.0	17.0
1960.....	7,552	6,107	1,445	34,141	27,608	6,533	80.9	19.1
1961.....	9,059	7,005	2,054	40,388	31,230	9,157	77.3	22.7
1962.....	10,290	7,238	3,052	45,370	31,914	13,457	70.3	29.7
1963.....	12,495	7,764	4,731	54,373	33,786	20,587	62.1	37.9
1964.....	14,225	7,829	6,396	61,183	33,673	27,510	55.0	45.0
1965.....	14,614	7,342	7,272	61,767	31,031	30,735	50.2	49.8
1966.....	15,320	7,536	7,784	63,384	31,179	32,205	49.2	50.8
1967.....	16,529	8,566	7,963	66,275	34,346	31,929	51.8	48.2
1968.....	15,921	8,275	7,646	61,614	32,024	29,590	52.0	48.0
1969.....	15,641	8,356	7,285	57,908	30,937	26,971	53.4	46.6
1970.....	15,339	7,981	7,358	53,840	28,013	25,827	52.0	48.0
1971.....	15,543	8,110	7,433	51,949	27,106	24,843	52.2	47.8
1972.....	16,496	8,902	7,594	52,669	28,423	24,246	54.0	46.0
1973.....	16,800	9,002	7,798	51,360	27,521	23,840	53.6	46.4
1974.....	17,410	9,016	8,394	49,686	25,731	23,955	51.8	48.2
1975.....	19,039	9,679	9,360	49,235	25,030	24,205	50.8	49.2
1976.....	20,780	10,430	10,350	50,193	25,193	25,000	50.2	49.8
1977.....	23,450	11,864	11,586	52,685	26,655	26,030	50.6	49.4
1978.....	25,976	12,899	13,077	54,617	27,122	27,496	49.7	50.3
1979.....	28,208	13,791	14,417	54,858	26,820	28,038	48.9	51.1
1980.....	29,739	14,946	14,793	53,115	26,694	26,421	50.3	49.7
1981.....	33,735	18,413	15,322	54,925	29,979	24,946	54.6	45.4
1982.....	36,115	22,070	14,045	54,953	33,582	21,371	61.1	38.9
1983.....	38,768	24,936	13,832	56,505	36,345	20,160	64.3	35.7
1984.....	44,214	29,287	14,927	62,151	41,168	20,983	66.2	33.8

See explanatory notes and SOURCES at end of table.

Table 4. Federally funded R&amp;D for national defense and civilian functions: fiscal years 1955-2002

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Fiscal year	Current dollars			Constant 1996 dollars <sup>1</sup>			Percent of total	
	Total	National defense	Civilian functions	Total	National defense	Civilian functions	National defense	Civilian functions
	[In millions of dollars]							
1985.....	49,887	33,698	16,189	67,883	45,854	22,029	67.5	32.5
1986.....	53,249	36,926	16,323	70,753	49,065	21,689	69.3	30.7
1987.....	57,069	39,152	17,917	73,799	50,630	23,170	68.6	31.4
1988.....	59,106	40,099	19,007	74,012	50,212	23,800	67.8	32.2
1989.....	62,115	40,665	21,450	74,901	49,035	25,865	65.5	34.5
1990.....	63,781	39,925	23,856	74,121	46,397	27,723	62.6	37.4
1991.....	65,898	39,328	26,570	73,711	43,991	29,720	59.7	40.3
1992.....	68,398	40,083	28,315	74,556	43,692	30,864	58.6	41.4
1993.....	69,884	41,249	28,635	74,400	43,915	30,485	59.0	41.0
1994.....	68,331	37,764	30,566	71,207	39,354	31,853	55.3	44.7
1995.....	68,791	37,204	31,587	70,166	37,948	32,219	54.1	45.9
1996.....	69,049	37,801	31,248	69,049	37,801	31,248	54.7	45.3
1997.....	71,653	39,591	32,062	70,283	38,834	31,449	55.3	44.7
1998.....	73,569	39,823	33,746	71,150	38,514	32,636	54.1	45.9
1999.....	77,637	41,306	36,332	74,046	39,395	34,651	53.2	46.8
2000.....	78,664	42,580	36,084	73,607	39,843	33,764	54.1	45.9
2001.....	86,270	45,595	40,675	79,045	41,777	37,268	52.9	47.1
2002.....	94,000	51,362	42,638	84,358	46,093	38,265	54.6	45.4

<sup>1</sup>Calculated using fiscal year GDP implicit price deflators with 1996 as the base year.

**NOTES:** The national defense function includes Department of Defense's military activities and Department of Energy's atomic energy defense programs. Civilian functions include all other Federally funded R&D activities. Data for 1955-77 are obligations. Data for 1978-2000 are actual budget authority. Data for 2001 are preliminary estimates of budget authority. Data for 2002 are budget authority proposed by the administration.

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from the agencies' budget offices.

Table 5. Federal budget authority for basic research, by budget function: fiscal years 2000-2002

2002 rank	Budget function	2000	2001	2002	Percent change	
		actual	preliminary	proposed	2000-2001	2001-2002
		[In millions of dollars]				
	Total.....	19,470	22,015	23,302	13.1	5.8
4	National defense.....	1,184	1,369	1,355	15.7	-1.0
1	Health.....	10,099	11,537	12,973	14.2	12.4
3	Space research and technology.....	1,616	2,157	2,066	33.4	-4.2
2	General science and basic research.....	4,722	5,074	5,069	7.5	-0.1
8	Natural resources and environment.....	146	198	193	34.9	-2.5
6	Transportation.....	542	416	421	-23.2	1.3
5	Agriculture.....	651	710	679	9.1	-4.3
12	Energy.....	36	42	25	14.9	-39.9
7	Veterans benefits and services.....	266	290	304	9.0	4.8
9	Education, training, employment, and social services.....	107	109	106	1.9	-2.8
11	Commerce and housing credit.....	39	42	40	7.5	-4.3
10	International affairs.....	42	51	49	21.4	-3.9
13	Administration of justice.....	20	20	21	0.0	5.0
--	Community and regional development.....	0	0	0	NA	NA
--	Income security.....	0	0	0	NA	NA
--	General government.....	0	0	0	NA	NA

**KEY:** NA = Not applicable

**NOTES:** Because of rounding, components may not add to totals. Percent change is derived from unrounded data.  
The order of budget functions is the same as order for Federal R&D budget authority, by budget function shown in table 2.

**SOURCES:** Agencies' submissions to Office of Management and Budget, MAX Schedule C; agency budget justification documents; and supplemental data obtained from agencies' budget offices.

Table 6. **Federal R&D budget authority as a percentage of total budget authority by budget function: fiscal years 2000-2002**

2002 rank	Budget function	2000 actual	2001 preliminary	2002 proposed
	All functions conducting R&D.....	7.6	7.9	7.9
3	National defense.....	14.0	14.4	15.0
4	Health.....	11.1	11.3	11.2
2	Space research and technology.....	42.8	45.1	45.1
1	General science and basic research.....	73.7	70.2	68.9
6	Natural resources and environment.....	8.0	7.6	8.1
8	Transportation.....	3.0	2.7	2.7
5	Agriculture.....	4.2	5.3	9.1
16	Energy <sup>1</sup> .....	-84.1	-157.4	-265.8
9	Veterans benefits and services.....	1.4	1.5	1.4
12	Education, training, employment, and social services.....	0.8	0.6	0.4
7	Commerce and housing credit <sup>1</sup> .....	2.6	-6.5	2.9
10	International affairs.....	0.9	1.2	0.9
13	Administration of justice.....	0.3	0.3	0.2
11	Community and regional development.....	0.4	0.5	0.4
15	Income security.....	*	*	*
14	General government.....	*	*	*

<sup>1</sup> R&D as percentage of total budget authority is negative for some years because gross budget authority has been reduced by offsetting receipts. Offsetting receipts can exceed gross budget authority.

\* = Less than one-tenth of 1 percent.

**NOTES:** Total budget authority includes discretionary and mandatory budget authority, less offsets. The order of budget functions is the same as order for Federal R&D budget authority, by budget function shown in table 2.

**SOURCES:** Agencies' submissions to Office of Management and Budget (OMB), MAX Schedule C; agency budget justification documents; supplemental data obtained from agencies' budget offices; and OMB, *Budget of the United States Government, Fiscal Year 2002*, (Washington, DC, 2001), table 22-1.

